

Application No. 10/559,996  
RESTRICTION REQUIREMENT AND AMENDMENT dated September 13, 2007  
Reply to Office Action of August 17, 2007

**AMENDMENTS TO THE CLAIMS:**

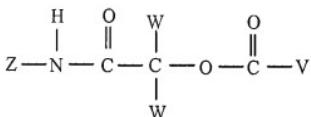
This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A compound of the formula



formula (Ia)

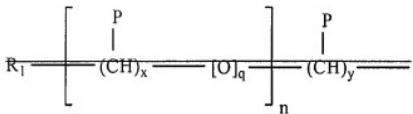


formula (Ib)

in which

the residues V, W, X and Z are in each case, independently of each other, a hydrocarbon residue which can contain heteroatoms and/or V, W and/or X is/are hydrogen, characterized in that wherein at least one of the residues V, W, X and/or Z carries a binding group Y and in that the residues V, W, X and Z together exhibit at least one group of the formula (IIa)

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$\text{R}_1 - (\text{CH}_2\text{-CH}_2\text{-O})_n - \text{CH}_2\text{-CH}_2\text{-}$

formula (IIa)

in which

P is, on each occasion independently, H, OH, O-R<sub>2</sub>  
or CO-R<sub>3</sub>,

R<sub>1</sub> is H or a hydrocarbon residue which has from 1 to 50 carbon atoms and which can contain heteroatoms, and

R<sub>2</sub> is, on each occasion independently, a hydrocarbon residue having from 1 to 6 C atoms,  
R<sub>3</sub> is OH or NR<sub>4</sub>R<sub>5</sub>,

R<sub>4</sub> and R<sub>5</sub> are, in each case independently, H or a hydrocarbon residue which can contain heteroatoms,

where R<sub>4</sub> and R<sub>5</sub> can also together form a ring system,

n is, on each occasion independently, an integer of from 3 to 1000, and

x is, on each occasion, an integer of from 1 to

10, and

y is an integer of from 0 to 50, and

q is, on each occasion, 1.

2. (Currently Amended) A The compound as claimed in of claim 1, characterized in that  
wherein the binding group Y is selected from groups which are able to bind to an amino group,

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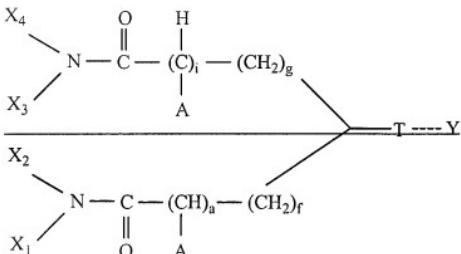
a thiol group, a carboxyl group, a guanidine group, a carbonyl group, a hydroxyl group, a heterocycle, a C-nucleophilic group, a C-electrophilic group, a phosphate or a sulfate, or are able to form a chelate or a complex with metals or are able to bond to silicon-containing surfaces.

3. (Currently Amended) A The compound as claimed in of claims 1, characterized in that wherein it contains at least three groups of the formula (IIa).

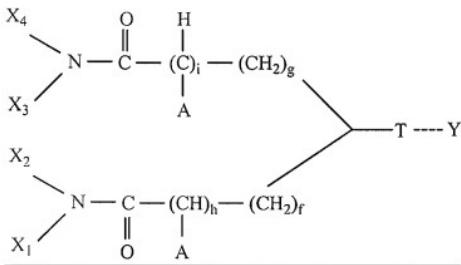
4. (Currently Amended) A The compound as claimed in of claim 1, characterized in that wherein at least one of the residues X and/or Z is branched and contains at least two groups of the formula (IIa).

5. (Currently Amended) A The compound as claimed in of claim 1, wherein at least one of the residues X and/or Z additionally possesses a targeting group.

6. (Currently Amended) A compound having the formula (XIV)



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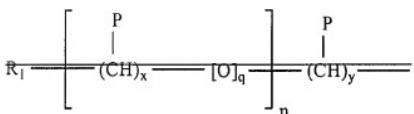
in which

$h$  and  $i$  are, on each occasion independently, 0 or 1,

$g$  and  $f$  are, on each occasion independently, an integer between 0 and 10, preferably between 0 and 5,

$A$  is, on each occasion,  $H$  or  $-(CO)-NX_2$ , and

$X_1$ ,  $X_2$ ,  $X_3$  and  $X_4$ , and also  $X$ , have, in each case independently of each other, the meanings given above for  $X$ , where the compound exhibits at least two groups of the formula (IIa)



$R_1 - (CH_2 - CH_2 - O)_n - CH_2 - CH_2 -$

formula (IIa)

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in which

P is, on each occasion independently, H, OH, OR<sub>1</sub> or CO-R<sub>2</sub>,

R<sub>1</sub> is H or a hydrocarbon residue which has from 1 to 50 carbon atoms and which can contain 5 heteroatoms, and

R<sub>2</sub> is, on each occasion independently, a hydrocarbon residue having from 1 to 6 C atoms,

R<sub>3</sub> is OH or NR<sub>4</sub>R<sub>5</sub>,

R<sub>4</sub> and R<sub>5</sub> are, in each case independently, H or a hydrocarbon residue which can contain heteroatoms, where R<sub>4</sub> and R<sub>5</sub> can also together form a ring system,

n is, on each occasion independently, an integer of from 3 to 1000 and

x is, on each occasion, an integer of from 1 to 10, and

y is an integer of from 0 to 50, and

q is, on each occasion, 1.

7. (Currently Amended) A method for preparing a compound as claimed in claim 1, characterized in that wherein the compounds of the formulae

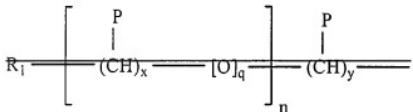


and



are reacted with each other, as starting compounds, in a multicomponent reaction, where V', W', X' and Z' are, in each case independently of each other, a hydrocarbon residue which can optionally contain heteroatoms and/or V', W' and/or X' are hydrogen, where at least one of the residues V', W', X' and Z' carries a binding group Y and where the residues V', W', X' and Z' together possess at least two groups of the formula (IIa)

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$\text{R}_1 - (\text{CH}_2\text{CH}_2\text{O})_n - \text{CH}_2\text{CH}_2$

formula (IIa)

in which

P is, on each occasion independently, H, OH, O R<sub>2</sub> or CO R<sub>3</sub>,

R<sub>1</sub> is H or a hydrocarbon residue which has from 1 to 50 carbon atoms and which can contain heteroatoms, and

R<sub>2</sub> is, on each occasion independently, a hydrocarbon residue having from 1 to 6 C atoms,

R<sub>3</sub> is OH or NR<sub>4</sub>R<sub>5</sub>,

R<sub>4</sub> and R<sub>5</sub> are, in each case independently, H or a hydrocarbon residue which can contain heteroatoms, where R<sub>4</sub> and R<sub>5</sub> can together also form a ring system,

n is, on each occasion independently, an integer of from 3 to 1000, and

x is, on each occasion, an integer of from 1 to 10, and

y is an integer of from 0 to 50, and

q is, on each occasion, 1.

8. (Currently Amended) The method as claimed in claim 7, characterized in that wherein at least one of the residues V', W', X' and/or Z' contains at least one further functionality selected from the group consisting of NH<sub>2</sub>, C=O, NC and/or COOH.

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9. (Previously Presented) A conjugate which comprises a compound of the formula (I), as defined in claim 1, which is covalently bonded to a biopharmaceutical, pharmaceutical and/or synthetic active compound.
10. (Previously Presented) A conjugate which comprises a compound of the formula (I), as defined in claim 1, which is covalently bonded to a surface and/or a biocatalyst.
11. (Previously Presented) A conjugate which comprises a compound of the formula (I), as defined in claim 1, which is covalently bonded to an enzyme.
12. (Previously Presented) A conjugate which comprises a compound of the formula (I), as defined in claim 1, which is covalently bonded to medicinal products or adjuvants for administering active compounds.
13. (Previously Presented) A pharmaceutical composition which comprises a compound as claimed in claim 1.
14. (Previously Presented) A diagnostic composition which comprises a compound as claimed in claim 1.
15. (Currently Amended) A pharmaceutical for treating cancer or coronary diseases, metabolic diseases, ~~neuronal or cerebral diseases, e.g. Alzheimer's or Parkinson's, or inflammatory processes, e.g. infections, and immune or autoimmune diseases, in particular rheumatoid arthritis,~~ comprising the conjugate as claimed in claim 9.

16. (Currently Amended) A method for preparing a substance library, ~~characterized in that~~  
wherein at least two different compounds as claimed in claim 1 are prepared using the method  
as claimed in claim 7 or 8.

17. (Previously Presented) A substance library which comprises at least two different  
compounds of the formula (I), as defined in claim 1.

18. (Currently Amended) A kit which comprises:

- (a) at least one compound as claimed in ~~one of claims 1, to 6~~ 2, 3, 4, 5 or 6;  
~~and also~~
- (b) buffer solutions and, where appropriate, ;
- (c) standard proteins and/or means for purifying conjugates which have been formed  
together  
with the compound from (a).

19. (Previously Presented) A pharmaceutical composition comprising the conjugate as  
claimed in claim 9.

20. (Previously Presented) A diagnostic composition comprising the conjugate as claimed  
in claim 9.